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Select the area of part to be treated

Selecting the desired
magnitude of compression
and
residual stress distribution

Exerting pressure against the surface of the selected region, the pressure being applied in a selected pattern along the surface to form zones of deformation having a deep layer of compressive stress

Varying the pressure being exerted against

the surface to produce the desired

residual stress distribution and magnitude of compression

within the surface



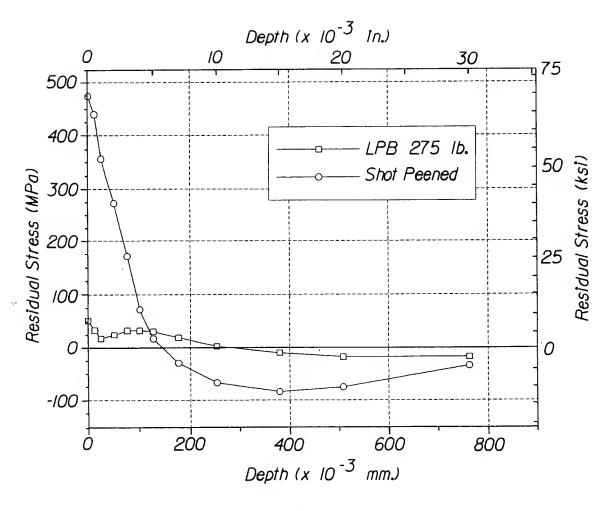
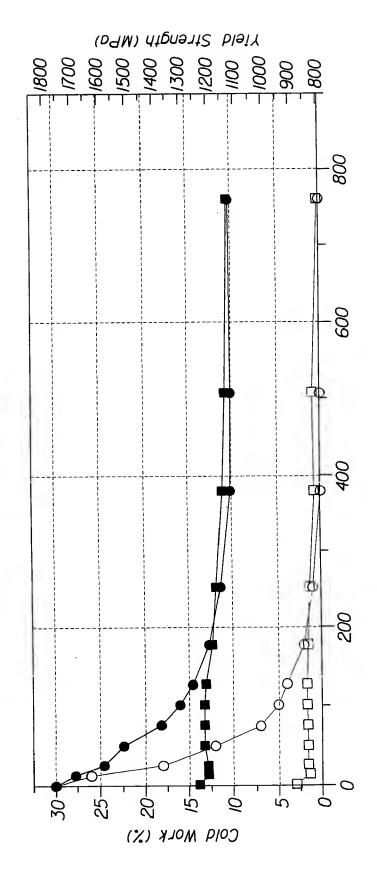


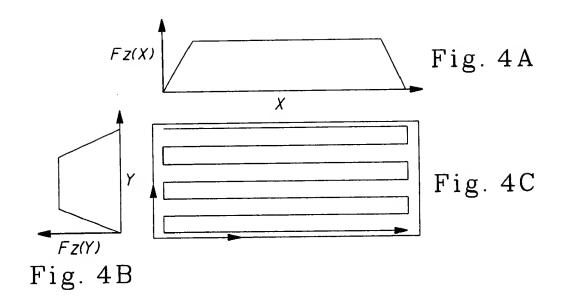
Fig. 2

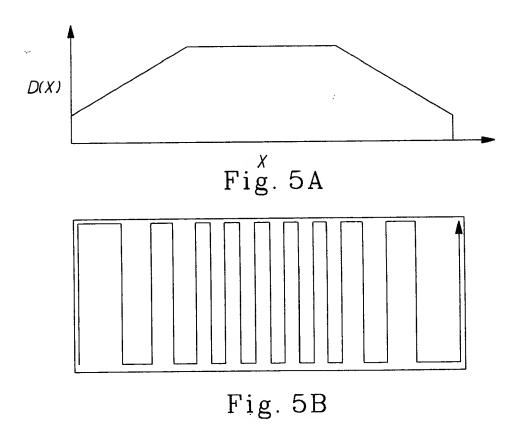




Depth (x10⁻³ mm) $\operatorname{Fig.} 3$







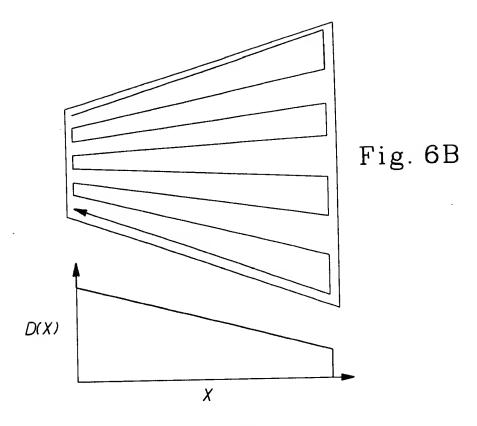
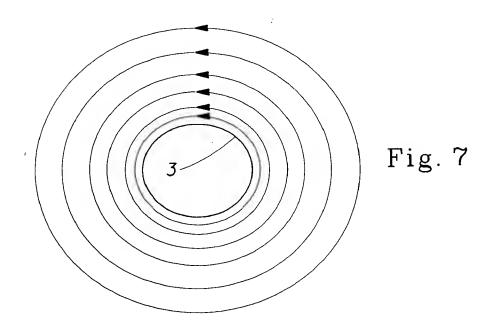


Fig. 6A





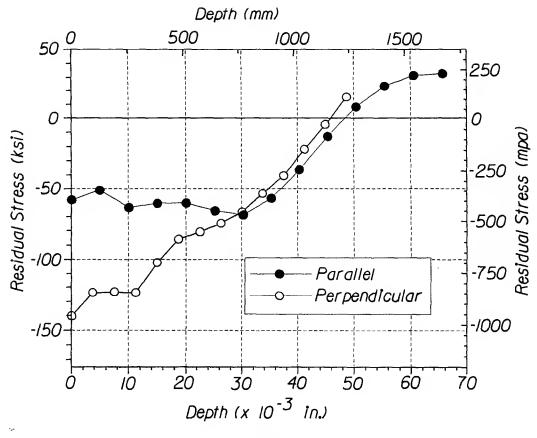


Fig. 8

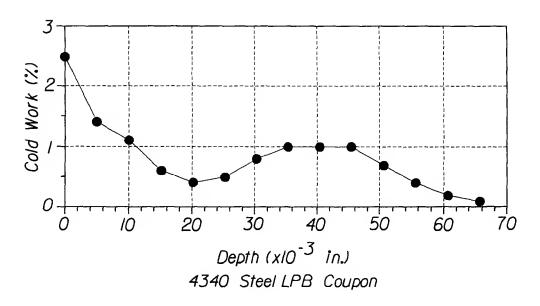
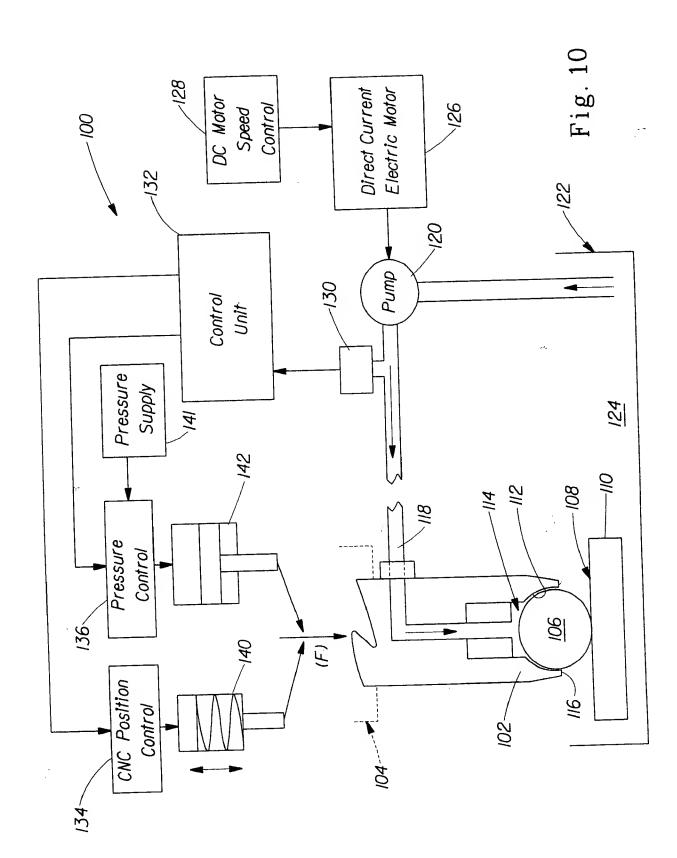


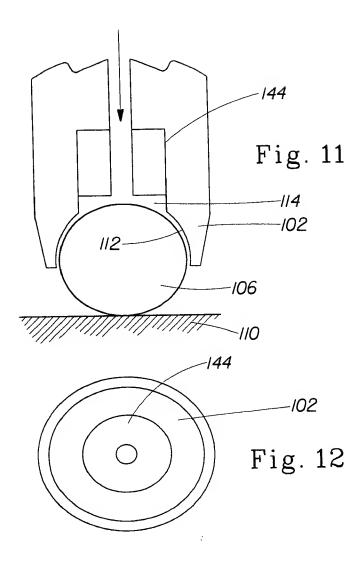
Fig. 9











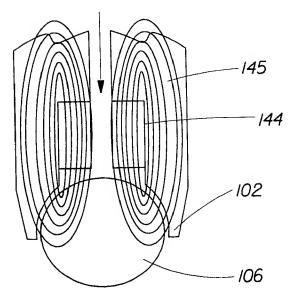


Fig. 13



